

U.S. Industrial Internet of Things Market Size, Share & Trends Analysis Report By Component (Hardware, Solution, Services), By End-use (Aviation, Metal & Mining, Chemical), By Software, By Connectivity Technology, By Device & Technology, And Segment Forecasts, 2025 - 2033

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Abstracts

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U.S. Industrial Internet of Things Market Size & Trends

The U.S. industrial internet of things market size was estimated at USD 142.35 billion in 2024 and is projected to reach USD 671.92 billion by 2033, growing at a CAGR of 18.8% from 2025 to 2033. The increasing demand for real-time data analytics is driving rapid adoption of IIoT platforms across manufacturing and industrial enterprises in the U.S. Businesses are leveraging sensor-generated data to monitor asset performance, predict maintenance needs, and optimize production workflows. This capability is crucial for reducing unplanned downtime and improving operational efficiency. As industries strive for data-driven decision-making, real-time analytics remains a critical enabler of competitive advantage.

The accelerated adoption of artificial intelligence (AI) and machine learning (ML) is transforming operations across the U.S. industrial internet of things market. These technologies enable industrial systems to autonomously detect anomalies, forecast equipment failures, and optimize production in real time. For instance, AI and ML drive smarter, faster decision-making by converting large volumes of raw sensor data into actionable insights. As competitive pressures increase, businesses are leveraging these

tools to enhance productivity, reduce costs, and improve operational resilience.

Cloud-native platforms are becoming the preferred infrastructure choice in the U.S. Industrial Internet of Things (IoT) industry owing to their scalability, flexibility, and cost-effectiveness. These platforms streamline device management, data integration, and analytics while supporting real-time collaboration across global operations. Businesses benefit from simplified deployment, lower IT overhead, and seamless upgrades. As the need for digital agility grows, cloud-native adoption is accelerating across industrial sectors.

The growing demand for supply chain visibility drives IIoT adoption among logistics, manufacturing, and distribution players in the U.S. Industrial Internet of Things industry. Businesses are implementing connected sensors, trackers, and analytics tools to monitor inventory, transit conditions, and delivery timelines in real time. Enhanced visibility supports better forecasting, risk mitigation, and customer satisfaction. IIoT-enabled transparency is a key differentiator in supply chain management in an era of global disruptions.

U.S. Industrial Internet of Things Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. Industrial Internet of Things market report based on component, end-use, software, connectivity technology, and device & technology:

Component Outlook (Revenue, USD Billion, 2021 - 2033)

Hardware

Solution

Remote Monitoring

Data Management

Analytics

Security Solutions

Others

Services

Professional

Managed

Platform

Connectivity Management

Application Management

Device Management

End-use Outlook (Revenue, USD Billion, 2021 - 2033)

Aviation

Metal & Mining

Chemical

Manufacturing

Energy & Power

Smart Grids

Oil & Gas

Healthcare

Logistics & Transport

Intelligent Signaling System

Video Analytics

Incident Detection System

Route Scheduling Guidance System

Agriculture

Precision Farming

Livestock Monitoring

Smart Greenhouses

Fish Farming

Retail

Point of Sales

Interactive Kiosks

Self-Checkout Systems

Others

Software Outlook (Revenue, USD Billion, 2021 - 2033)

Product Lifecycle Management

Manufacturing Execution Systems

SCADA

Outage Management Systems

Distribution Management Systems

Remote Patent Monitoring

Retail Management Software

Visualization Software

Transit Management Systems

Farm Management Systems

Connectivity Technology Outlook (Revenue, USD Billion, 2021 - 2033)

Wired Technology

Ethernet

Modbus

Profinet

CC-Link

Foundation Fieldbus

Wireless Technology

Wi-Fi

Bluetooth

Cellular Technologies

4G/LTE

5G

Satellite Technologies

Device & Technology Outlook (Revenue, USD Billion, 2021 - 2033)

Sensors

Radio Frequency Identification (RFID)

Industrial Robotics

Distributed Control Systems

Condition Monitoring

Smart Meters

Electronic Shelf Labels

Cameras

Smart Beacons

Interface Boards

Yield Monitors

Guidance & Steering

GPS/GNSS

Flow & Application Control Devices

Networking Technology

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Market Definitions
 - 1.2.1. Information analysis
 - 1.2.2. Market formulation & data visualization
 - 1.2.3. Data validation & publishing
- 1.3. Research Scope and Assumptions
 - 1.3.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

CHAPTER 3. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.2. Market Restraint Analysis
 - 3.2.3. Deployment Challenge
- 3.3. U.S. Industrial Internet of Things (IIoT)Market Analysis Tools
 - 3.3.1. Deployment Analysis - Porter's
 - 3.3.1.1. Bargaining power of the suppliers
 - 3.3.1.2. Bargaining power of the buyers
 - 3.3.1.3. Threats of substitution
 - 3.3.1.4. Threats from new entrants
 - 3.3.1.5. Competitive rivalry
 - 3.3.2. PESTEL Analysis
 - 3.3.2.1. Political landscape
 - 3.3.2.2. Economic landscape
 - 3.3.2.3. Social landscape
 - 3.3.2.4. Technological landscape
 - 3.3.2.5. Environmental landscape

3.3.2.6. Legal landscape

CHAPTER 4. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET: COMPONENT ESTIMATES & TREND ANALYSIS

4.1. Segment Dashboard

4.2. U.S. industrial internet of things market: Component Movement Analysis, USD Billion, 2024 & 2033

4.2.1. Hardware

4.2.1.1. Hardware U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.2. Solution

4.2.2.1. Solution U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.2.2. Remote Monitoring

4.2.2.2.1. Remote Monitoring U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.2.3. Data Management

4.2.2.3.1. Data Management U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.2.4. Analytics

4.2.2.4.1. Analytics U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.2.5. Security Solutions

4.2.2.5.1. Security Solutions U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.2.6. Others

4.2.2.6.1. Others U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.3. Services

4.2.3.1. Services U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.3.2. Professional

4.2.3.2.1. Professional U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.3.3. Managed

4.2.3.3.1. Managed U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.4. Platform

4.2.4.1. Platform U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.4.2. Connectivity Management

4.2.4.2.1. Connectivity Management U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.4.3. Application Management

4.2.4.3.1. Application Management U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

4.2.4.4. Device Management

4.2.4.4.1. Device Management U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 5. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET: END USE ESTIMATES & TREND ANALYSIS

5.1. Segment Dashboard

5.2. U.S. industrial internet of things market: End Use Movement Analysis, USD Billion, 2024 & 2033

5.2.1. Aviation

5.2.1.1. Aviation U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.2. Metal & Mining

5.2.2.1. Metal & Mining U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.3. Chemical

5.2.3.1. Chemical U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.4. Manufacturing

5.2.4.1. Manufacturing U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.5. Energy & Power

5.2.5.1. Energy & Power U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.6. Smart Grids

5.2.6.1. Smart Grids U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.7. Oil & Gas

5.2.7.1. Oil & Gas U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.8. Healthcare

5.2.8.1. Healthcare U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.9. Logistics & Transport

5.2.9.1. Logistics & Transport U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.9.2. Intelligent Signaling System

5.2.9.2.1. Intelligent Signaling System U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.9.3. Video Analytics

5.2.9.3.1. Video Analytics U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.9.4. Incident Detection System

5.2.9.4.1. Incident Detection System U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.9.5. Route Scheduling Guidance System

5.2.9.5.1. Route Scheduling Guidance System U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.10. Agriculture

5.2.10.1. Agriculture U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.10.2. Precision Farming

5.2.10.2.1. Precision Farming U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.10.3. Livestock Monitoring

5.2.10.3.1. Livestock Monitoring U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.10.4. Smart Greenhouses

5.2.10.4.1. Smart Greenhouses U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.10.5. Fish Farming

5.2.10.5.1. Fish Farming U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.11. Retail

5.2.11.1. Retail U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.11.2. Point of Sales

5.2.11.2.1. Point of Sales U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.11.3. Interactive Kiosks

5.2.11.3.1. Interactive Kiosks U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.11.4. Self-Checkout Systems

5.2.11.4.1. Self-Checkout Systems U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

5.2.11.5. Others

5.2.11.5.1. Others U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 6. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET: SOFTWARE ESTIMATES & TREND ANALYSIS

6.1. Segment Dashboard

6.2. U.S. industrial internet of things market: Software Movement Analysis, USD Billion, 2024 & 2033

6.2.1. Product Lifecycle Management

6.2.1.1. Product Lifecycle Management U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.2. Manufacturing Execution Systems

6.2.2.1. Manufacturing Execution Systems U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.3. SCADA

6.2.3.1. SCADA U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.4. Outage Management Systems

6.2.4.1. Outage Management Systems U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.5. Distribution Management Systems

6.2.5.1. Distribution Management Systems U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.6. Remote Patent Monitoring

6.2.6.1. Remote Patent Monitoring U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.7. Retail Management Software

6.2.7.1. Retail Management Software U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.8. Visualization Software

6.2.8.1. Visualization Software U.S. industrial internet of things market Revenue

Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.9. Transit Management Systems

6.2.9.1. Transit Management Systems U.S. industrial internet of things market
Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.2.10. Farm Management Systems

6.2.10.1. Farm Management Systems U.S. industrial internet of things market
Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 7. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET: CONNECTIVITY TECHNOLOGY ESTIMATES & TREND ANALYSIS

7.1. Segment Dashboard

7.2. U.S. industrial internet of things market: Connectivity Technology Movement
Analysis, USD Billion, 2024 & 2033

7.2.1. Wired Technology

7.2.1.1. Wired Technology U.S. industrial internet of things market Revenue
Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.1.2. Ethernet

7.2.1.2.1. Ethernet U.S. industrial internet of things market Revenue Estimates and
Forecasts, 2021 - 2033 (USD Billion)

7.2.1.2.2. Modbus

7.2.1.2.2.1. Modbus U.S. industrial internet of things market Revenue Estimates
and Forecasts, 2021 - 2033 (USD Billion)

7.2.1.2.3. Profinet

7.2.1.2.3.1. Profinet U.S. industrial internet of things market Revenue Estimates
and Forecasts, 2021 - 2033 (USD Billion)

7.2.1.2.4. CC-Link

7.2.1.2.4.1. CC-Link U.S. industrial internet of things market Revenue Estimates
and Forecasts, 2021 - 2033 (USD Billion)

7.2.1.3. Foundation Fieldbus

7.2.1.3.1. Foundation Fieldbus U.S. industrial internet of things market Revenue
Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.2. Wireless Technology

7.2.2.1. Wireless Technology U.S. industrial internet of things market Revenue
Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.2.2. Wi-Fi

7.2.2.2.1. Wi-Fi U.S. industrial internet of things market Revenue Estimates and
Forecasts, 2021 - 2033 (USD Billion)

7.2.2.3. Bluetooth

7.2.2.3.1. Bluetooth U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.2.4. Cellular Technologies

7.2.2.4.1. Cellular Technologies U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.2.4.2. 4G/LTE

7.2.2.4.2.1. 4G/LTE U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.2.4.3. 5G

7.2.2.4.3.1. 5G U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.2.2.5. Satellite Technologies

7.2.2.5.1. Satellite Technologies U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 8. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET: DEVICE & TECHNOLOGY ESTIMATES & TREND ANALYSIS

8.1. Segment Dashboard

8.2. U.S. industrial internet of things market: Device & Technology Movement Analysis, USD Billion, 2024 & 2033

8.2.1. Sensors

8.2.1.1. Sensors U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.2. Radio Frequency Identification (RFID)

8.2.2.1. Radio Frequency Identification (RFID) U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.3. Industrial Robotics

8.2.3.1. Industrial Robotics U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.4. Distributed Control Systems

8.2.4.1. Distributed Control Systems U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.5. Condition Monitoring

8.2.5.1. Condition Monitoring U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.6. Smart Meters

8.2.6.1. Smart Meters U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.7. Electronic Shelf Labels

8.2.7.1. Electronic Shelf Labels U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.8. Cameras

8.2.8.1. Cameras U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.9. Smart Beacons

8.2.9.1. Smart Beacons U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.10. Interface Boards

8.2.10.1. Interface Boards U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.11. Yield Monitors

8.2.11.1. Yield Monitors U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.12. Guidance & Steering

8.2.12.1. Guidance & Steering U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.13. GPS/GNSS

8.2.13.1. GPS/GNSS U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.14. Flow & Application Control Devices

8.2.14.1. Flow & Application Control Devices U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.2.15. Networking Technology

8.2.15.1. Networking Technology U.S. industrial internet of things market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 9. U.S. INDUSTRIAL INTERNET OF THINGS (IIOT) MARKET - COMPETITIVE LANDSCAPE

9.1. Company Categorization

9.2. Company Market Positioning

9.3. Company Heat Map Analysis

9.4. Company Profiles/Listing

9.4.1. ABB Ltd.

9.4.1.1. Participant's Overview

9.4.1.2. Financial Performance

9.4.1.3. Product Benchmarking

- 9.4.1.4. Strategic Initiatives
- 9.4.2. ARM Holding Plc
 - 9.4.2.1. Participant's Overview
 - 9.4.2.2. Financial Performance
 - 9.4.2.3. Product Benchmarking
 - 9.4.2.4. Strategic Initiatives
- 9.4.3. Atmel Corporation
 - 9.4.3.1. Participant's Overview
 - 9.4.3.2. Financial Performance
 - 9.4.3.3. Product Benchmarking
 - 9.4.3.4. Strategic Initiatives
- 9.4.4. Cisco Systems, Inc.
 - 9.4.4.1. Participant's Overview
 - 9.4.4.2. Financial Performance
 - 9.4.4.3. Product Benchmarking
 - 9.4.4.4. Strategic Initiatives
- 9.4.5. General Electric Company (GE)
 - 9.4.5.1. Participant's Overview
 - 9.4.5.2. Financial Performance
 - 9.4.5.3. Product Benchmarking
 - 9.4.5.4. Strategic Initiatives
- 9.4.6. Honeywell International Inc.
 - 9.4.6.1. Participant's Overview
 - 9.4.6.2. Financial Performance
 - 9.4.6.3. Product Benchmarking
 - 9.4.6.4. Strategic Initiatives
- 9.4.7. Intel Corporation
 - 9.4.7.1. Participant's Overview
 - 9.4.7.2. Financial Performance
 - 9.4.7.3. Product Benchmarking
 - 9.4.7.4. Strategic Initiatives
- 9.4.8. Microsoft Corporation
 - 9.4.8.1. Participant's Overview
 - 9.4.8.2. Financial Performance
 - 9.4.8.3. Product Benchmarking
 - 9.4.8.4. Strategic Initiatives
- 9.4.9. Rockwell Automation, Inc.
 - 9.4.9.1. Participant's Overview
 - 9.4.9.2. Financial Performance

- 9.4.9.3. Product Benchmarking
- 9.4.9.4. Strategic Initiatives
- 9.4.10. Schneider Electric SE
 - 9.4.10.1. Participant's Overview
 - 9.4.10.2. Financial Performance
 - 9.4.10.3. Product Benchmarking
 - 9.4.10.4. Strategic Initiatives
- 9.4.11. Siemens AG
 - 9.4.11.1. Participant's Overview
 - 9.4.11.2. Financial Performance
 - 9.4.11.3. Product Benchmarking
 - 9.4.11.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 U.S. Industrial Internet of Things (IIoT) Market Size Estimates & Forecasts 2021 - 2033 (USD Billion)

Table 2 U.S. Industrial Internet of Things (IIoT) Market, By Component 2021 - 2033 (USD Billion)

Table 3 U.S. Industrial Internet of Things (IIoT) Market, By End Use 2021 - 2033 (USD Billion)

Table 4 U.S. Industrial Internet of Things (IIoT) Market, By Software 2021 - 2033 (USD Billion)

Table 5 U.S. Industrial Internet of Things (IIoT) Market, By Connectivity Technology 2021 - 2033 (USD Billion)

Table 6 U.S. Industrial Internet of Things (IIoT) Market, By Device & Technology 2021 - 2033 (USD Billion)

Table 7 Hardware Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 8 Solution Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 9 Remote Monitoring Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 10 Data Management Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 11 Analytics Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 12 Security Solutions Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 13 Others Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 14 Services Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 15 Professional Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 16 Managed Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 17 Platform Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 18 Connectivity Management Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 19 Application Management Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 20 Device Management Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 21 Aviation Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 22 Metal & Mining Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 23 Chemical Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 24 Manufacturing Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 25 Energy & Power Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 26 Smart Grids Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 27 Oil & Gas Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 28 Healthcare Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 29 Logistics & Transport Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 30 Intelligent Signaling System Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 31 Video Analytics Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 32 Incident Detection System Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 33 Route Scheduling Guidance System Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 34 Agriculture Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 35 Precision Farming Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 36 Livestock Monitoring Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 37 Smart Greenhouses Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 38 Fish Farming Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 39 Retail Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 40 Point of Sales Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 41 Interactive Kiosks Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 42 Self-Checkout Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 43 Others Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 44 Product Lifecycle Management Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 45 Manufacturing Execution Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 46 SCADA Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 47 Outage Management Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 48 Distribution Management Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 49 Remote Patent Monitoring Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 50 Retail Management Software Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 51 Visualization Software Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 52 Transit Management Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 53 Farm Management Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)

Table 54 Wired Technology Market Estimates & Forecast, 2021 - 2033 (USD Billion)

- Table 55 Ethernet Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 56 Modbus Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 57 Profinet Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 58 CC-Link Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 59 Foundation Fieldbus Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 60 Wireless Technology Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 61 Wi-Fi Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 62 Bluetooth Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 63 Cellular Technologies Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 64 4G/LTE Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 65 5G Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 66 Satellite Technologies Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 67 Sensors Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 68 Radio Frequency Identification (RFID) Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 69 Industrial Robotics Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 70 Distributed Control Systems Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 71 Condition Monitoring Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 72 Smart Meters Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 73 Electronic Shelf Labels Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 74 Cameras Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 75 Smart Beacons Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 76 Interface Boards Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 77 Yield Monitors Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 78 Guidance & Steering Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 79 GPS/GNSS Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 80 Flow & Application Control Devices Market Estimates & Forecast, 2021 - 2033 (USD Billion)
- Table 81 Networking Technology Market Estimates & Forecast, 2021 - 2033 (USD Billion)

List Of Figures

LIST OF FIGURES

- Fig. 1 U.S. industrial internet of things market segmentation
- Fig. 2 Information procurement
- Fig. 3 Data analysis models
- Fig. 4 Market formulation and validation
- Fig. 5 Data validating & publishing
- Fig. 6 U.S. industrial internet of things market snapshot
- Fig. 7 U.S. industrial internet of things market segment snapshot
- Fig. 8 U.S. industrial internet of things market competitive landscape snapshot
- Fig. 9 Market research process
- Fig. 10 Market driver relevance analysis (current & future impact)
- Fig. 11 Market restraint relevance analysis (current & future impact)
- Fig. 12 U.S. industrial internet of things market: component outlook key takeaways (USD billion)
- Fig. 13 U.S. industrial internet of things market: component movement analysis (USD billion), 2024 & 2033
- Fig. 14 Hardware U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 15 Solution U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 16 Remote Monitoring U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 17 Data Management U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 18 Analytics U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 19 Security Solutions U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 20 Others U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 21 Services U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 22 Professional U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 23 Managed U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)
- Fig. 24 Platform U.S. industrial internet of things market revenue estimates and

forecasts, 2021 - 2033 (USD billion)

Fig. 25 Connectivity Management U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 26 Application Management U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 27 Device Management U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 28 U.S. industrial internet of things market: end use outlook key takeaways (USD billion)

Fig. 29 U.S. industrial internet of things market: end use movement analysis (USD billion), 2024 & 2033

Fig. 30 Aviation U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 31 Metal & Mining U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 32 Chemical U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 33 Manufacturing U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 34 Energy & Power U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 35 Smart Grids U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 36 Oil & Gas U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 37 Healthcare U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 38 Logistics & Transport U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 39 Intelligent Signaling System U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 40 Video Analytics U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 41 Incident Detection System U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 42 Route Scheduling Guidance System U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 43 Agriculture U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 44 Precision Farming U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 45 Livestock Monitoring U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 46 Smart Greenhouses U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 47 Fish Farming U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 48 Retail U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 49 Point of Sales U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 50 Interactive Kiosks U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 51 Self-Checkout Systems U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 52 Others U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 53 U.S. industrial internet of things market: software outlook key takeaways (USD billion)

Fig. 54 U.S. industrial internet of things market: software movement analysis (USD billion), 2024 & 2033

Fig. 55 Product Lifecycle Management U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 56 Manufacturing Execution Systems U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 57 SCADA U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 58 Outage Management Systems U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 59 Distribution Management Systems U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 60 Remote Patent Monitoring U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 61 Retail Management Software U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 62 Visualization Software U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 63 Transit Management Systems U.S. industrial internet of things market revenue

estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 64 Farm Management Systems U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 65 U.S. industrial internet of things market: connectivity technology outlook key takeaways (USD billion)

Fig. 66 U.S. industrial internet of things market: connectivity technology movement analysis (USD billion), 2024 & 2033

Fig. 67 Wired Technology U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 68 Ethernet U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 69 Modbus U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 70 Profinet U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 71 CC-Link U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 72 Foundation Fieldbus U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 73 Wireless Technology U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 74 Wi-Fi U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 75 Bluetooth U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 76 Cellular Technologies U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 77 4G/LTE U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 78 5G U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 79 Satellite Technologies U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 80 U.S. industrial internet of things market: device & technology outlook key takeaways (USD billion)

Fig. 81 U.S. industrial internet of things market: device & technology movement analysis (USD billion), 2024 & 2033

Fig. 82 Sensors U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 83 Radio Frequency Identification (RFID) U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 84 Industrial Robotics U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 85 Distributed Control Systems U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 86 Condition Monitoring U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 87 Smart Meters U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 88 Electronic Shelf Labels U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 89 Cameras U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 90 Smart Beacons U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 91 Interface Boards U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 92 Yield Monitors U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 93 Guidance & Steering U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 94 GPS/GNSS U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 95 Flow & Application Control Devices U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 96 Networking Technology U.S. industrial internet of things market revenue estimates and forecasts, 2021 - 2033 (USD billion)

Fig. 97 Key company categorization

Fig. 98 Strategy framework?

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